

**tsd**

TOTAL SOUND COMMUNICATIONS

3M Brand  
**SPEAKERS**  
**GRILLES**

# **SPEAKER ASSEMBLIES...**

## ***Specially Matched to the Total System***

Designed with features and value! The 3M Brand Pre-assembled grille/speaker/transformers are specially matched to the needs of "Background" Music and Voice Communication applications.

Equipped with the popular size 8" round speaker that emphasizes sensitivity to the middle tones of sound. Complete with aluminum, plastic or metal grilles that provide ceiling or wall flush mounting, plus decor flexibility for use in all types of buildings.



PACKED 6 PER CARTON

### **FEATURES**

Quality construction—ready to install—saves time.

Style setting grilles.

6.3 oz. ceramic magnet speaker with whizzer cone for quality sound reproduction.

Competitively priced.

Grilles can be color painted to match ceiling or wall.

70 volt transformer—6 taps (1/8 - 4 watts) stripped leads.

3M Brand "SCOTCHLOK" crimp connectors included with mounting hardware.

**Model RMA-70 Stock No. 78-8010-4916-0**

**Model RMW-70 Stock No. 78-8010-4876-6**

**Model RPW-70 Stock No. 78-8010-4909-5**

The following 25-volt assemblies are special order. 3M will ship within 30-days of receiving your order.

**Model RMA-25 Stock No. 78-8010-4915-2**

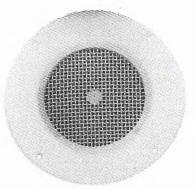
**Model RMW-25 Stock No. 78-8010-4871-7**

**Model RPW-25 Stock No. 78-8010-4908-7**

**Sound Products**   
3M  
COMPANY

# 3M BRAND Flush Mounting Grilles

## RPW-O (ROUND) CEILING GRILLE

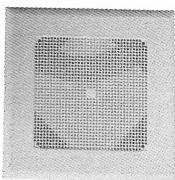


- Heavy duty flush mounting for 8" speakers.
- Unobtrusive white finish, high-impact plastic.
- Extreme durability...no rust...no mar...no chip.
- Speaker mounts w/self tapping screws to rear side.
- Hardware furnished for speaker and grille mounting.

### SPECIFICATIONS

Dimensions..... 12 $\frac{5}{8}$ " diam.  
Weight..... 1/2 lb.  
Packed..... 20 per carton  
Stock No..... 78-8010-4874-1

## SPF-O (SQUARE) CEILING GRILLE



- High-impact styrene.
- Resistant to rust, chipping, warping, marring.
- May be on-the-job painted with latex paint.
- Waffle type baffle gives 60% more sound reproduction.
- Speaker mounts quickly to grille with push-nuts.
- Grill mounting hardware and matching mounting ring included.

### SPECIFICATIONS

Dimensions..... 10" x 10"  
Weight..... 1/2 lb.  
Packed..... 20 per carton  
Stock No..... 78-9020-1389-1

## RMA-O (ROUND) CEILING GRILLE

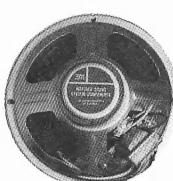


- Spun aluminum...coated with clear lacquer.
- Blends with any decor.

- Satin finish.
- Attaches directly to ceiling or to metal enclosure, T-bar bridge or plaster ring.
- Speaker and grille mounting hardware furnished.

### SPECIFICATIONS

Dimensions..... 12 $\frac{5}{8}$ " Diam.  
Weight..... 1 lb.  
Packed..... 20 per carton  
Stock No..... 78-8010-4914-5

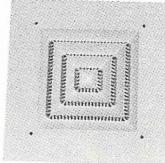


## 8" ROUND LOUD SPEAKERS

Popular size and price  
for use with grilles  
pictured.

- Whizzer cone for extended high frequencies.
- Rigid frame construction for proper voice coil and magnet alignment.
- 6.3 oz. ceramic magnet.
- Hi-accuracy in mid-range frequencies 55 Hz - 15 kHz.
- 8 ohms impedance.
- 70 volt (or 25 volt) line-to-voice coil transformer — 6 taps (1/6-4 watts).
- Depth of speaker — 3".

## SPSL-O (SQUARE) SEMI-RECESSED CEILING GRILLE



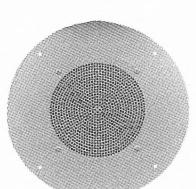
- 360° sound dispersion—for larger areas.
- High-impact plastic—square styling.

- Used in large, low ceiling rooms.
- White finish will not chip, mar or rust.
- Speaker and grille mounting hardware included.

### SPECIFICATIONS

Dimensions..... 12" x 12"  
Weight..... 1/2 lb.  
Packed..... 25 per carton  
Stock No..... 78-9020-1089-7

## RMW-O (ROUND) CEILING GRILLE



- Heavy 20 gauge steel...special rust proof coating.
- Baked-on white finish (may be used as primer for on-the-job painting).
- Attached directly to ceiling, metal enclosure, T-bar bridge or to plaster ring.
- Speaker and grille mounting hardware furnished.

### SPECIFICATIONS

Dimensions..... 12 $\frac{5}{8}$ " Diam.  
Weight..... 1 1/4 lbs.  
Packed..... 20 per carton  
Stock No..... 78-8010-4875-8

## RMD-O (ROUND) CEILING BAFFLE



- 360° controlled sound dispersion.
- 18 gauge spun aluminum with satin finish.
- Designed for low ceiling plush surroundings.
- Clear lacquer coating prevents tarnish. May be used for primer for on-the-job painting.
- Speaker and grille mounting hardware included.

### SPECIFICATIONS

Dimensions..... 12 $\frac{5}{8}$ " Diam. x 3 $\frac{1}{2}$ "  
Weight..... 2 lbs.  
Packed..... 6 per carton  
Stock No..... 78-9010-0184-8

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TOTAL SOUND COMMUNICATIONS

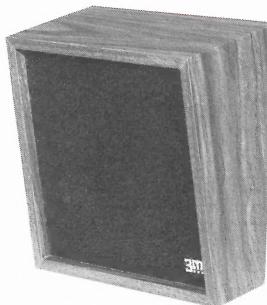
3M Brand

SLIMLINE  
BAFFLES

SLANTLINE  
SPEAKERS

## 3M Brand SLANTLINE

Matched perfectly to the 3M Brand "Cantata" Music System—the 3M Slantline speaker baffle provides the best sound distribution when high ceilings are encountered. Its elegant walnut grained vinyl over sturdy wood product and dark grille cloth makes it suitable for office, lobby or restaurant decor. Available with 8 ohm or 70-volt speakers.



### SPECIFICATIONS

- Modern design
- 15° Taper directs sound downward
- All wood product construction with durable walnut grained vinyl finish
- Pre-drilled  $\frac{3}{8}$ " hole for mounting volume control
- Recessed black grille cloth front
- Unique single-screw mounting bracket included
- Weight — 5 lbs.
- Dimensions— $10\frac{3}{4}$ " x  $10\frac{3}{4}$ " x  $5\frac{5}{8}$ " Top —3" bottom
- Packed — 6 per carton
- Includes 8" round speaker
- **Model TB-8**  
Stock No. 78-8010-4898-0  
Model TB-70  
Stock No. 78-8010-4905-3

### SPECIFICATIONS

- Sturdy wood products-vinyl covered
- Modern design
- Pre-drilled hole for mounting volume control
- Recessed full front dark grille cloth
- Unique single screw mounting bracket included
- Weight — 7 lbs.
- Dimensions — 12" x 18" x  $4\frac{1}{4}$ "
- Packed 2 per carton
- Includes 8" round speaker
- **Model SL-8**  
Stock No. 78-8010-4926-9  
Model SL-70  
Stock No. 78-8010-4907-9



## 3M Brand SLIMLINE

Specially designed for surface mountings. The Slimline speaker baffle provides the sound distribution needed for standard and low ceiling heights. Constructed of sturdy wood product, covered with walnut grained vinyl—attractive dark grille cloth—suitable for any office or lobby area. Ideal for use with 3M Brand "Cantata" Music Systems, and available with 8 ohm or 70 volt speakers.

## 8" ROUND SPEAKER

Quality speaker, designed to handle the mid-range frequencies of "background music" systems. These speakers are supplied in the above baffles and add superb sound to any audio system.

### SPECIFICATIONS

- 6.3 oz. ceramic magnet
- 70 Volt (25 Volt) line-to-voice coil transformer with 6 taps ( $\frac{1}{8}$ -4 watts) and 6" long stripped leads
- Rigid frame construction for proper voice coil and magnet alignment
- Voice coil impedance of 8 ohms
- Edge treated cone with whizzer
- Max power continuous—6 watts
- Flux density—7200 Gauss

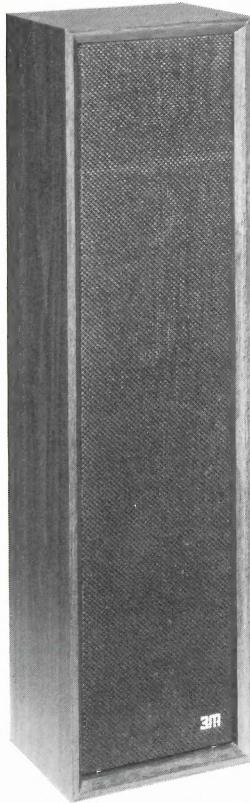
- 1" voice coil
- Frequency response of 55 Hz-15 kHz
- Depth of speaker—3"
- Sensitivity—95db $\pm$ 3db on axis at 4 feet with a 1-watt input
- Packed 6 per inner carton; 24 per master carton

Model S8-8 (8 Ohm) Stock No. 78-8010-4921-0  
Model S8-25 (25 Volt) Stock No. 78-8010-4922-8  
Model S8-70 (70 Volt) Stock No. 78-8010-4923-6



# 3M BRAND Column Speakers

*Encompass a large area with sound...*

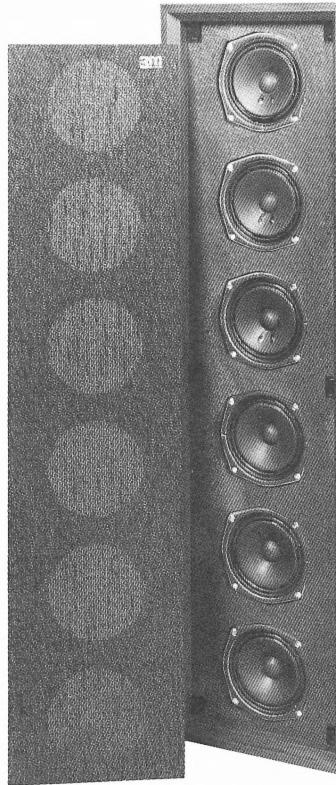


## THE MOST VERSATILE APPROACH TO TOTAL SOUND COVERAGE...

Originally intended as the perfect answer for large room and auditorium sound distribution, the unique qualities of the 3M Column Speaker provide even distribution of sound necessary to many voice and music system installations. Large lobbies, auditoriums, churches, malls, high vaulted areas, or wherever uniform sound levels are required, the 3M Column Speaker will answer the need for **both** voice and music system sound distribution.

Powered with six five-inch round speakers, the 3M Model CL-45 is sturdily constructed of wood materials, covered with a rich walnut-grained vinyl.

Model CL-45



### SPECIFICATIONS

Type	Air Suspension
Nominal Impedance	12 ohms
Power Handling Capacity	45 Watts R.M.S.
Frequency Response	40 Hz-15,000 Hz
Drivers	Six five-inch speakers with ten ounce ceramic magnet each
Finish	Walnut grained vinyl
Dimensions	35 1/2" high, 9 5/8" wide, 7 1/8" deep
Weight	19 lbs.
Stock No.	78-8010-4899-8

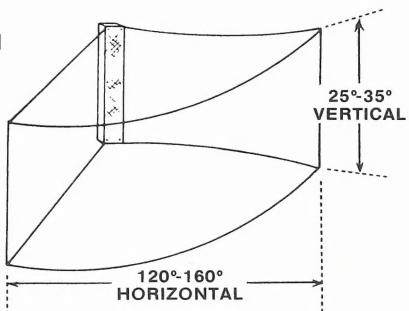
### ARCHITECT'S/ENGINEER'S SPECIFICATIONS

The loudspeaker shall be 3M Model CL-45 sound column or approved equal. The sound column shall incorporate six five-inch round speakers arranged in straight line. The column speaker shall have a frequency response of 40 Hz-15,000 Hz. It shall have a power handling capacity of 45 watts and a nominal impedance of 12 ohms.

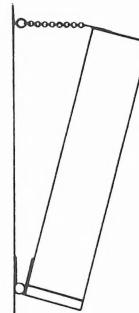
The dimensions shall be 35 1/2" high, 9 5/8" wide, 7 1/8" deep and the column speaker shall be supplied with mounting hardware.

The column speaker shall be furnished with a durable walnut grained vinyl, the grille area shall be covered with an attractive textured cloth.

AVERAGE DISPERSION  
PATTERN



MOUNTING  
HARDWARE  
FURNISHED



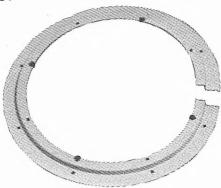
# 3M Mounting Enclosures, Rings, Shields, Accessories

## MOUNTING RING

### SPECIFICATIONS

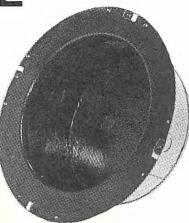
- High impact plastic.
- Quick Twist Mount snaps in hole (12" dia.)
- Speaker size—8"
- Packed—50 per carton • Weight—1/4 lb.
- Use with RMA-0, RPW-O, RMW-O, SPLS-O and RMD-O Grilles
- Stock No. 78-9020-1102-8

For quick installation in new construction or existing ceilings.



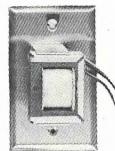
## ROUNDED ENCLOSURE

3M Protective speaker enclosure for new construction. Provides sufficient speaker back pressure relief to assure high speaker efficiency and a heavy undercoat to prevent metallic resonance.



### SPECIFICATIONS

- 22 gauge metal
- Rust-proof coating
- 1" mounting flange
- Dimensions—9 7/8" x 4 1/16"
- Weight—3/4 lb.
- Packed—6 per carton
- Stock No. 78-9010-0181-4



## LINE ATTENUATOR

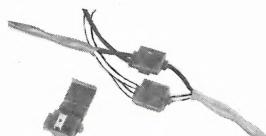
Attenuator controls 25 or 70-volt line for single or multiple speaker volume control. Each speaker must have a line transformer. 3M Brand quality attenuators provide excellent long-term reliability.

### SPECIFICATIONS

- Silver contacts
- Full frequency response
- Rotary switch
- Brushed stainless steel wall plate
- Fit any standard single electrical wall box
- Black knob
- Tapped auto transformer—constant voltage systems (25 volt or 70 volt)
- Depth dimensions: 2 1/2"
- Stock No. 78-9020-1588-8

## 3M Brand "SCOTCHLOK" CONNECTORS

No stripping or twisting wires, just insert wires and crimp connector in place with ordinary pliers.



### SPECIFICATIONS

- UL approved for 16-22 AWG wire
- Unique self-stripping contact penetrates insulation when crimped.
- Packed—100 per box
- No. 558 T-Tap Connector 78-6969-1698-6
- No. 557 Pigtail Connector 78-6969-1458-5

## SPEAKER SHIELD

Provides economical dirt protection for the speaker side cone. Holes are provided for free cone movement. Provision for transformer.



### SPECIFICATIONS

- Clear light-weight plastic.
- Mounted with speaker hardware
- Size—9.5 in.
- Weight—3 oz.
- Packed—16 per carton
- Stock No. 78-9020-1388-3

## LINE MATCHING TRANSFORMERS



New high efficiency line-to-voice coil transformer used to match 70 volt or 25 volt feed lines to 8 ohm speakers. Designed to provide loading effect on amplifier of less than 115% of rated power tap. Delivers more power to speakers.

### SPECIFICATIONS

- 6 wattage taps (4, 2, 1, .5, .25, .125 watts)
- 6" long color coded leads on primary and secondary
- 8 ohms secondary
- Mounting holes on 2" centers
- 70 volt or 25 volt versions available
- Efficiency at 1 kHz is 70% minimum, 80% typical
- Bulk packed—30 per carton
- Weight—1/2 lb.
- Model T-25  
Stock No. 78-8010-4924-4
- Model T-70  
Stock No. 78-8010-4925-1

## WALL PLATE

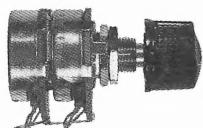


Designed to fit any standard electrical box, provides professional installation and mounting for an L-pad speaker control or a microphone terminal (1/4" jack use Switchcraft 12B)

### SPECIFICATIONS

- Finish—Brushed stainless steel
- Includes mounting yoke and hardware
- Packed 6 per carton
- Stock No. 78-9020-1371-9

## L-PAD LEVEL CONTROL



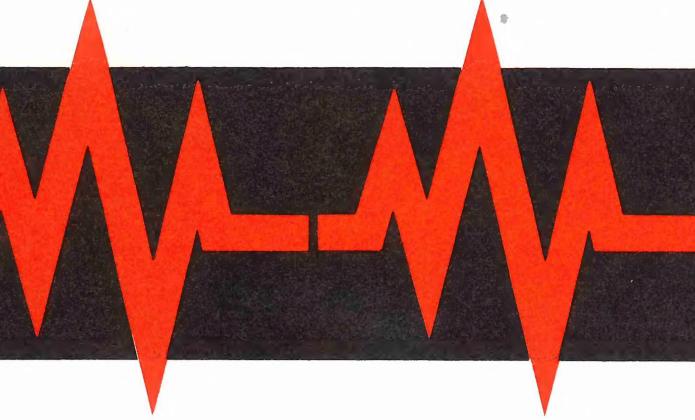
Used for controlling individual speaker volume without affecting the volume level of other speakers in the system.

### SPECIFICATIONS

- Dust proof housing
- Attenuation 50 db
- Capacity—5 watts continuous speaker volume
- Brown knob
- Packed 6 per carton
- Stock No. 78-9020-1037-6

**tsc**

TOTAL SOUND COMMUNICATIONS

**3M Brand**  
**OUTDOOR**  
**SPEAKER**  
**HORNS**  
**MOUNTING**  
**ACCESSORIES**

## **3M Brand OUTDOOR SPEAKER OS-15T**



This high fidelity, weatherproof speaker is designed to match the 3M "Cantata" Music System for both outdoor and indoor installations. Perfect for low to medium level use in shopping malls, restaurant patios, around swimming pools. Light in weight, the OS-15T is suitable for wall, beam, pole or ceiling mounting. Built-in transformer has a readily-adjustable watts/impedance switch.

### **3M OUTDOOR SPEAKER SPECIFICATIONS**

<b>Power Handling</b> .....	15 Watts integrated program material capacity
<b>Frequency Response</b> .....	150-12,000 Hz
<b>Driver Impedance</b> .....	8 ohms
<b>Dispersion</b> .....	130° x 110°
<b>Sound Pressure Level</b> .....	117dB
<b>Overall Dimensions</b> .....	13 $\frac{1}{4}$ " W x 10 $\frac{3}{8}$ " H x 9 $\frac{3}{4}$ " D
<b>Power Taps (Watts @ 70V)</b> .....	1.25/2.5/5/7.5/15
<b>Weight</b> .....	10 lbs.
<b>Finish</b> .....	Baked Beige Epoxy
<b>Packed</b> .....	1 per carton
<b>Stock No.</b> .....	78-8010-4864-2

## **3M Brand PAGING/TALKBACK SPEAKER PS-15**



The 3M Paging Speaker is a compact, highly intelligible, double re-entrant loudspeaker ideal for Paging and Intracom Systems. Designed for both indoor and outdoor installation, the entire assembly is weatherproof and the built-in transformer, with an adjustable watts/impedance switch is water-sealed. Metal construction.

### **3M PAGING SPEAKER SPECIFICATIONS**

<b>Power</b> .....	15 Watts (speech/music) 20 Watts (equalized)
<b>Frequency</b> .....	275-14,000 Hz
<b>Sound Level</b> .....	121 db
<b>Dispersion</b> .....	110°
<b>Impedance (ohms)</b> .....	5K/2500/1300/666/333/89/45
<b>Power Taps (watts)</b> .....	70V—.9/1.8/3.8/7.5/15 25V—.48/.94/1.8/7/15
<b>Dimensions</b> .....	8" W x 8" H x 9" D
<b>Weight</b> .....	5 lbs.
<b>Finish</b> .....	Beige
<b>Packed</b> .....	1 per carton
<b>Stock No.</b> .....	78-9020-1584-7